

# 2D MOTORIZED HEIGHT GAGE PART NO. ISH-M700

TOUCH  
SCREEN

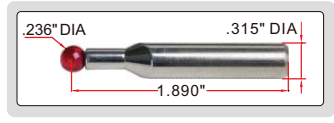
CUSTOM PROBE,  
THE MAXIMUM LENGTH IS 11.81"

AIR BEARING  
BASE

DATA  
OUTPUT



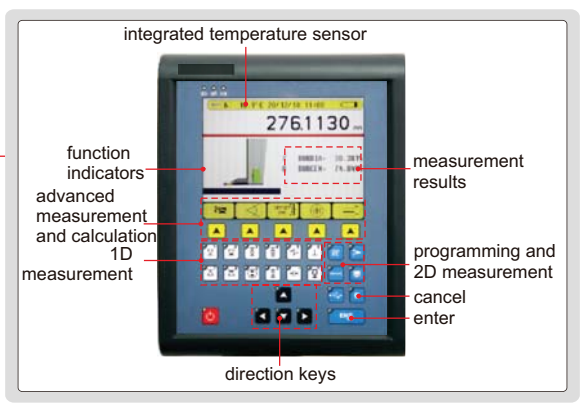
expandable  
measurement range



.236" DIA ruby ball probe(included)



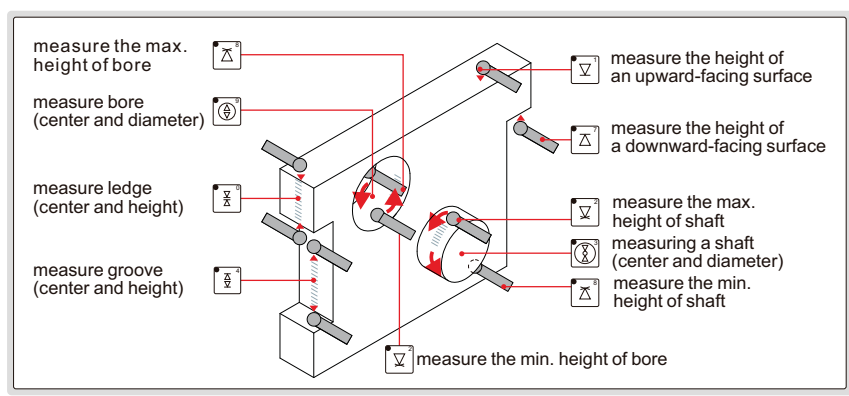
air bearing system



integrated temperature sensor  
function indicators  
advanced measurement and calculation  
1D measurement  
direction keys  
measurement results  
programming and 2D measurement  
cancel enter  
controller

- Language: English, Czech, Chinese, Italian, France, German, Polish
- 1D and 2D measurements
- Off-line part programming for increased measurement efficiency
- Squareness measurement with compensation
- Integrated temperature sensor for temperature compensation
- Air bearing system for light and smooth movement
- Touch button screen
- LCD display with backlight
- Built-in rechargeable battery, for 16 hours continuous working

## 1D MEASUREMENT



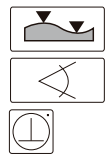
software CD (included)

## 2D MEASUREMENT



- measure distance between two points
- measure angle with three points
- measure pitch-circle
- coordinate transformation
- Max. 300 measuring step memories

## ADVANCED MEASUREMENT



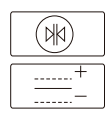
- maximum, minimum, run-out
- angle measurement
- squareness measurement

## PROGRAM MEASUREMENT



- Off-line part programming for increased measurement efficiency
- Max.5 measuring programs memories
- low and high limits setting with judgement
- statistical evaluation based on stored measurement data, and create histograms

## CALCULATION FUNCTIONS



- calculate the distance between 2 measured values
- set the tolerance

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**SPECIFICATION**

Measuring range	0~27.5in
Maximum expandable range	40in
Squareness (with squareness probe)	236μin
Resolution	.00001in, .0001in, .001in
Accuracy	(80+10L/3)μin, L is the measuring length in inch (The environment temperature is 68°F)
Repeatability	40μin
Measuring force	.225±.045lbf
Data output	USB or RS232
Power	rechargeable battery
Working temperature	50°F~104°F
Weight	60lb

**STANDARD DELIVERY**

Main unit	1pc
.236" DIA ruby ball probe	1pc
Probe calibration block	1pc
Software disc	1pc
USB cable	1pc
AC/DC adapter	1pc

**OPTIONAL ACCESSORY**

probes	see below
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<p>.0787" DIA ruby ball probe, length 1.890" code <b>ISH-M-R2</b></p>	<p>.1181" DIA ruby ball probe, length 1.890" code <b>ISH-M-R3</b></p>	<p>.1575" DIA carbide ball probe, length 1.890" code <b>ISH-M-C4</b></p>
<p>.1575" DIA carbide ball probe, length 2.835" code <b>ISH-M-C4A</b></p>	<p>.1575" DIA carbide ball probe, length 3.937", repeatability: 200μin part no. <b>ISH-M-C4B</b></p>	<p>steel pin probe for groove, length 3.150" code <b>ISH-M-DP</b></p>
<p>.3937" DIA carbide ball probe, length 3.937", repeatability: 200μin code <b>ISH-M-C10</b></p>	<p>.3937" DIA disc probe, length 1.890" code <b>ISH-M-D10</b></p>	<p>squareness probe with holder code <b>ISH-M-SQA</b></p>
<p>.0591" DIA carbide depth probe, length 1.890" code <b>ISH-M-S105</b></p>	<p>.0787" DIA carbide depth probe, length 1.890" code <b>ISH-M-S2</b></p>	

**Probe Set (code ISH-M-KIT)**

usage of probe		mounting base		extension rod	
<p>.0394" DIA ruby ball probe, repeatability: 240μin</p>	<p>.1181" DIA carbide ball probe, repeatability: 120μin</p>	<p>.0787" DIA carbide ball probe, repeatability: 160μin</p>	<p>probe for hole, repeatability: 480μin</p>	<p>steel pin probe for deep, repeatability: 80μin</p>	<p>probe for groove, repeatability: 200μin</p>